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TITLE: Laser irradiation apparatus

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## INVENTOR-INFORMATION:

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US-CL-CURRENT: 359/624; 359/623

CLAIMS:

AU 2873

What is claimed is:

1. A laser irradiation apparatus for irradiating with a laser light having a linear or rectangular shape, said apparatus comprising:  
a homogenizer including at least one multi-cylindrical lens;  
a plurality of cylindrical lenses in said multi-cylindrical lens,  
wherein a direction of said multi-cylindrical lens is not parallel with a movement direction of said laser light.
2. An apparatus according to claim 1 wherein said laser light is used for laser annealing of a semiconductor device.
3. An apparatus according to claim 1 wherein said laser light is used for processing a plurality of devices arranged in matrix form.
4. An apparatus according to claim 1,  
wherein said homogenizer includes at least two multi-cylindrical lenses, and  
wherein said multi-cylindrical lenses are located perpendicular to each other.
5. An apparatus according to claim 1 wherein said direction of said multi-cylindrical lens is a direction of straight lines being formed at focuses by said laser light which outputs from said multi-cylindrical lens.
6. An apparatus according to claim 1,  
wherein said homogenizer includes at least two multi-cylindrical lenses, and  
wherein one of said multi-cylindrical lenses makes an angle of 45.degree. with respect the other of said multi-cylindrical lenses.
7. A laser irradiation apparatus for irradiating with a laser light having a linear shape, said apparatus comprising:  
a homogenizer including at least one multi-cylindrical lens;  
a plurality of cylindrical lenses in said multi-cylindrical lens,  
wherein a direction of said multi-cylindrical lens is not perpendicular to a longitudinal direction of said laser light.
8. An apparatus according to claim 7 wherein said laser light is used for laser annealing of a semiconductor device.
9. An apparatus according to claim 7 wherein said laser light is used for processing a plurality of devices arranged in matrix form.
10. An apparatus according to claim 7,  
wherein said homogenizer includes at least two multi-cylindrical lenses, and  
wherein said multi-cylindrical lenses are located perpendicular to each other.
11. An apparatus according to claim 7 wherein said direction of said multi-cylindrical lens is a direction of straight lines being formed at focuses by said laser light which outputs from said multi-cylindrical lens.
12. An apparatus according to claim 7,  
wherein said homogenizer includes at least two multi-cylindrical lenses, and

wherein said homogenizer includes at least two multi-cylindrical lenses, and wherein one of said multi-cylindrical lenses makes an angle of 45.degree. with respect the other of said multi-cylindrical lenses.